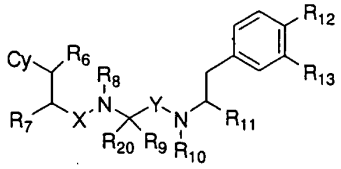
ABSTRACT

The present invention has as its object providing substituted phenethylamine derivatives that function as a motilin receptor antagonist and which are useful as medicines.

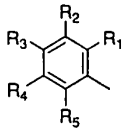
The invention provides compounds of Formula (1):



(1)

wherein:

Cy is a group of Formula (2):



(2)

an optionally substituted heterocyclic ring, C_{3-7}cycloalkyl or phenyl;

R_1, R_2, R_3, R_4 and R_5 are hydrogen, halogen, hydroxy, amino, trifluoromethyl or nitrile and at least one of R_1, R_2, R_3, R_4 and R_5 is halogen, trifluoromethyl or nitrile;

R_6 is hydrogen, optionally substituted straight-chained or branched C_{1-3}alkyl, amino or hydroxy;

R_7 is hydrogen, optionally substituted straight-chained or branched C_{1-3}alkyl, optionally substituted amino or hydroxy;

R_8 is hydrogen, methyl or ethyl;

R_9 is optionally substituted straight-chained or branched C_{1-6}alkyl, optionally substituted straight-chained or branched C_{2-6}alkenyl, optionally substituted straight-chained or branched C_{2-6}alkynyl, C_{3-7}cycloalkyl or optionally substituted phenyl;

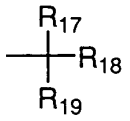
R_{20} is hydrogen or straight-chained or branched C_{1-3}alkyl or R_9 and R_{20} may together form C_{3-7}cycloalkyl;

R_{10} is hydrogen or straight-chained or branched C_{1-3}alkyl;

R_{11} is hydrogen, optionally substituted straight-chained or branched C_{1-3}alkyl, $-CO-N(R_{14})R_{15}$, carboxyl or an optionally substituted heterocyclic ring;

R_{12} is hydroxy or $-OR_{16}$;

R_{13} is hydrogen, straight-chained or branched C_{1-6}alkyl, straight-chained or branched C_{2-6}alkenyl, straight-chained or branched C_{2-6}alkynyl or a group of Formula (3):



(3)

R_{14} and R_{15}, which may be the same or different, are hydrogen, optionally substituted straight-chained or branched C_{1-4}alkyl, C_{3-7}cycloalkyl, straight-chained or branched C_{1-4}alkyloxy, straight-chained or branched C_{1-4}alkylsulfonyl or a heterocyclic ring, or R_{14} and R_{15}, as $-N(R_{14})R_{15}$, form optionally substituted 3- to 7-membered cyclic amine;

R_{16} is straight-chained C_{1-4}alkyl;

R_{17} is hydrogen or methyl;

R_{18} and R_{19} together form cycloalkyl or C_{3-7}cycloalkenyl;

X is carbonyl or methylene;

Y is carbonyl or methylene;

provided that

when Cy is 3-indolyl,

(i) R_{11} is an optionally substituted heterocyclic ring; or

(ii) R_6 is hyd[illegible] methyl R_9 is isopropyl, R_{20} is hydrogen, R_{10} is methyl, R_{11} is carbamoyl, R_{12} is hydroxy, R_{13} is tert-butyl, X is carbonyl and Y is carbonyl, and

when Cy is cyclohexyl or phenyl, R_{11} is an optionally substituted heterocyclic ring;

or a hydrate or pharmaceutically acceptable salt thereof.